

Patent
Attorney Docket No. 10012257-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Yasusi Kanada et al.

Application No.: 09/842,130

Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING A POLICY-BASED NETWORK

ATTN: DRAFTING BRANCH

Allowed:

Group Art Unit:

Examiner:

Confirmation No.:

SUBMISSION OF DRAWINGS

MAIL STOP ISSUE FEE

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Enclosed please find 21 sheet(s) of drawings for review by the Patent and Trademark Office.

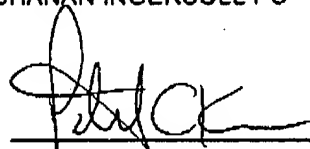
Should the enclosed drawing(s) require changes, it is respectfully requested that the Patent and Trademark Office notify the undersigned of same.

Respectfully submitted,

BUCHANAN INGERSOLL PC

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620

By



Patrick C. Keane

Registration No. 32,858

Date: September 27, 2005**Buchanan Ingersoll PC**
ATTORNEYS

Including attorneys from Burns Doane Swecker & Mathis

(8/05)

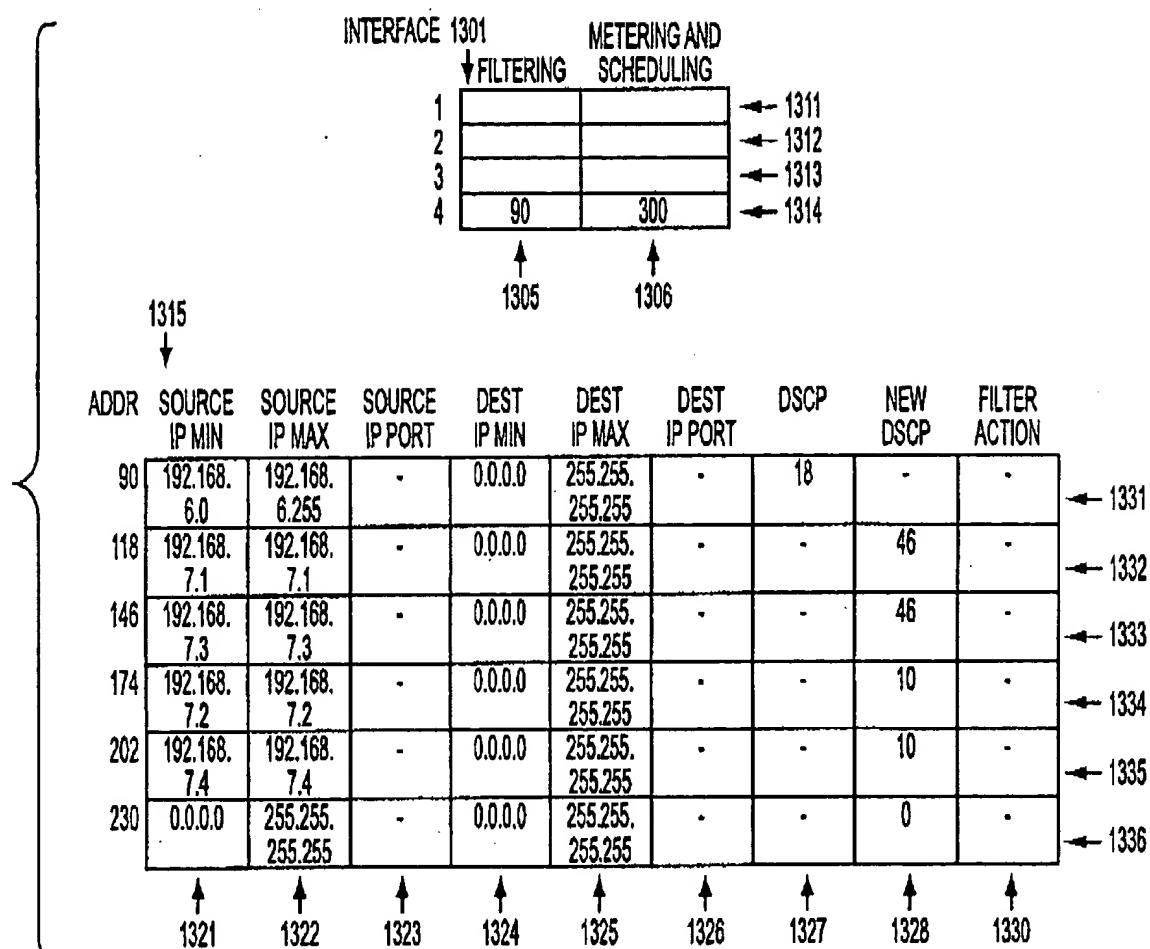


FIG. 13A

1316
↓

ADDR	SOURCE IP MIN	SOURCE IP MAX	SOURCE IP PORT	DEST IP MIN	DEST IP MAX	DEST IP PORT	DSCP	INFO. RATE	IN QUEUE	OUT DSCP	OUT QUEUE	OUT DROP
300	192.168. 6.0	192.168. 6.255	-	0.0.0.0	255.255. 255.255	-	18	-	5	-	-	-
332	0.0.0.0	255.255. 255.255	-	0.0.0.0	255.255. 255.255	-	46	1000	6	-	-	DROP
364	192.168. 7.2	192.168. 7.2	-	0.0.0.0	255.255. 255.255	-	10	-	5	-	-	-
396	192.168. 7.4	192.168. 7.4	-	0.0.0.0	255.255. 255.255	-	10	-	5	-	-	-
428	0.0.0.0	255.255. 255.255	-	0.0.0.0	255.255. 255.255	-	-	-	2	-	-	-

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑
 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352

FIG. 13B 14

1501 1502
↓ ↓

814 INTERFACE	ADDRESS	SCHEDLALG	
1	-	-	← 1511
2	-	-	← 1512
3	-	-	← 1513
4	-	PRIORITYSCHEDL	← 1514

FIG. 15

Appln. Filing Date: April 26, 2001
 Title: METHOD AND SYSTEM FOR CONTROLLING A
 POLICY-BASED NETWORK
 Inventor(s): Yasusi Kanada et al.
 Appln. No.: 09/842,130 Sheet 1 of 21

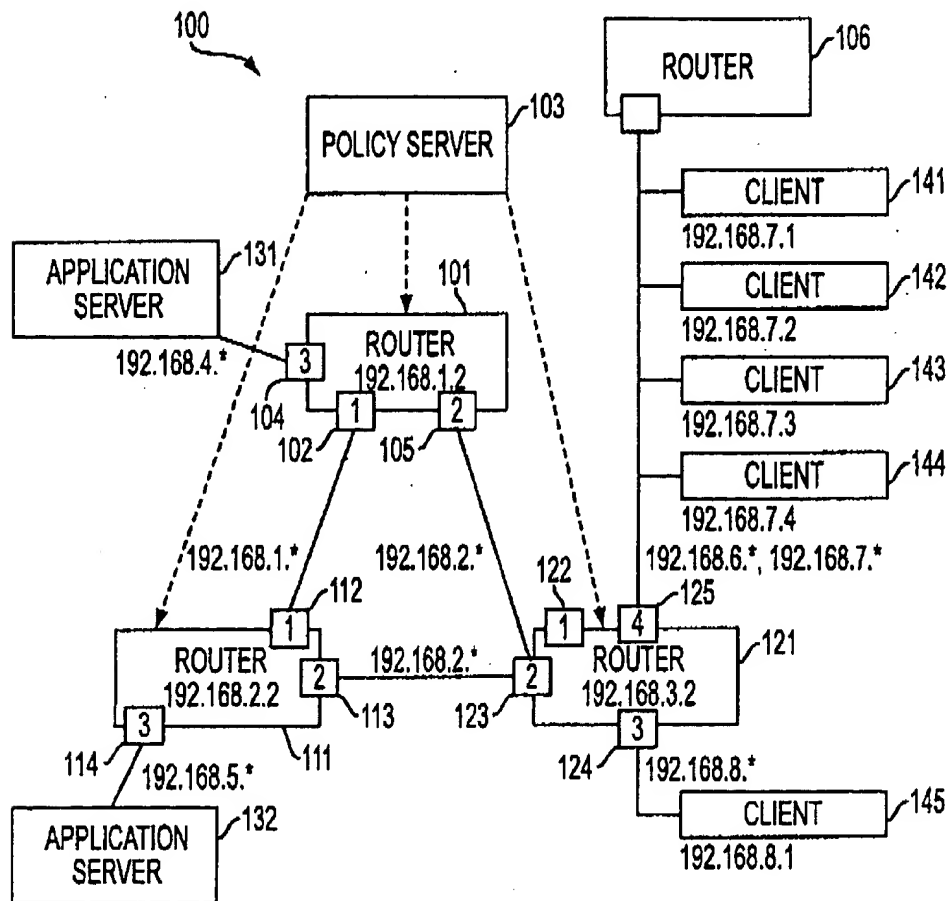


FIG. 1

Appln. Filing Date: April 26, 2001
Title: METHOD AND SYSTEM FOR CONTROLLING
A POLICY-BASED NETWORK
Inventor(s): Yasusi Kanada et al.
Appln. No.: 09/842,130 Sheet 2 of 21

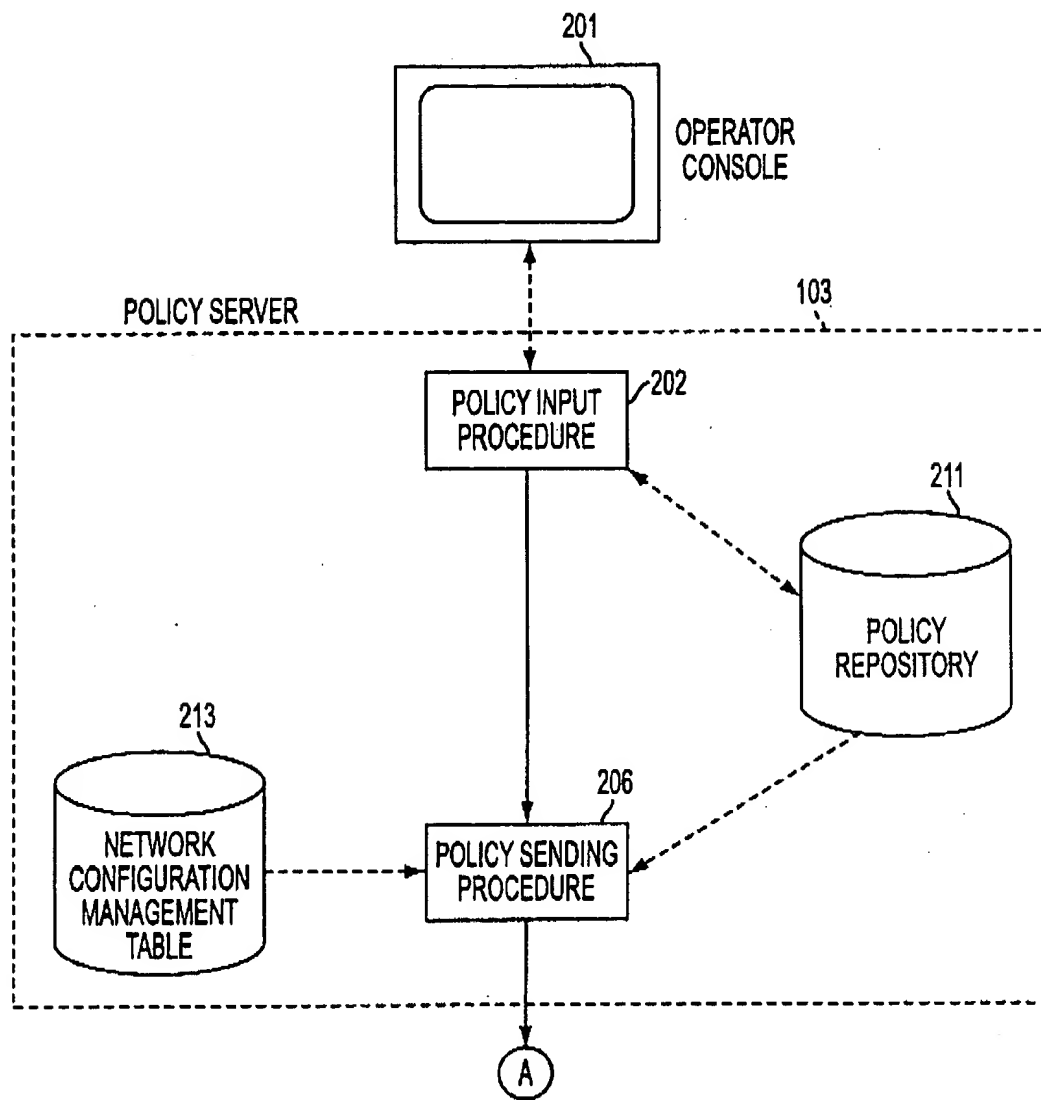


FIG. 2

Appl. Filing Date: April 26, 2001**Title:** METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK**Inventor(s):** Yasusi Kanada et al.**Appl. No.:** 09/842,130

Sheet 3 of 21

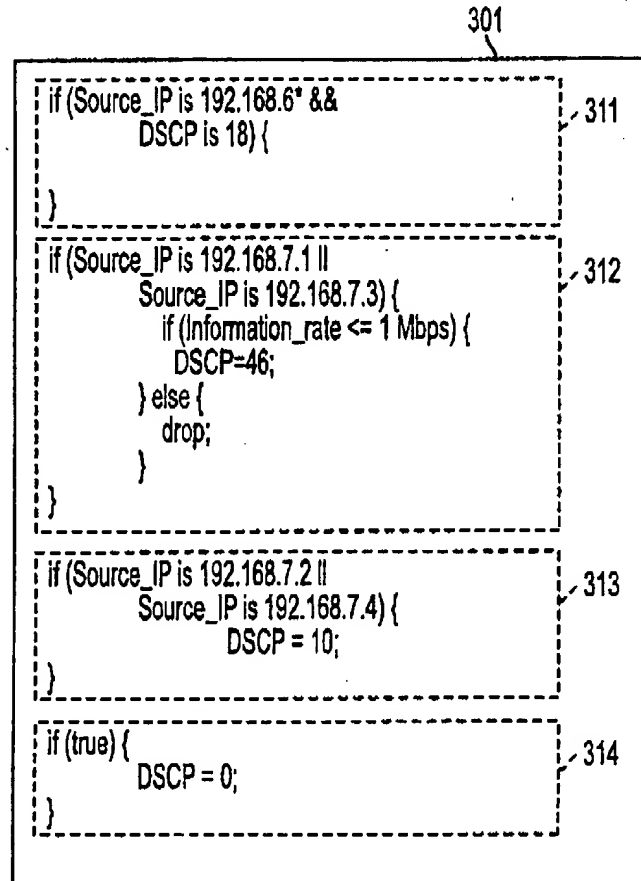


FIG. 3A

Appln. Filing Date: April 26, 2001
Title: METHOD AND SYSTEM FOR CONTROLLING
A POLICY-BASED NETWORK
Inventor(s): Yasusi Kanada et al.
Appln. No.: 09/842,130 Sheet 4 of 21

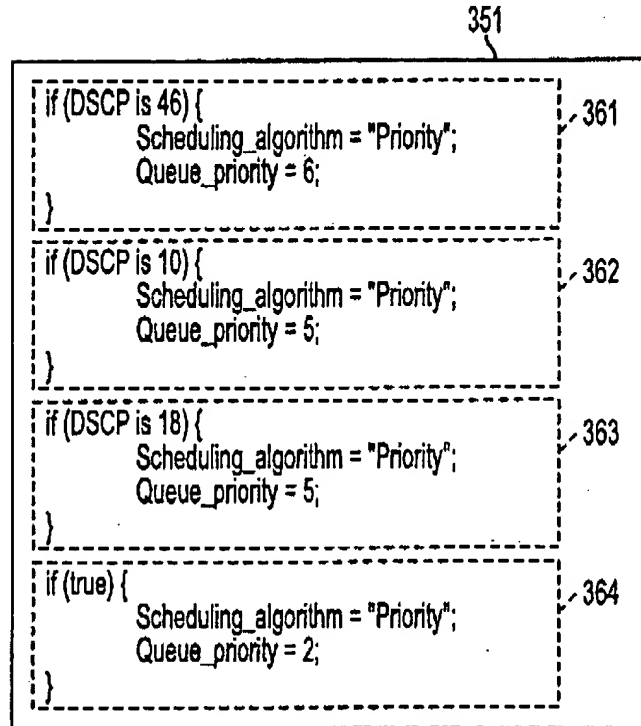


FIG. 3B

Appl. Filing Date: April 26, 2001
Title: METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK
Inventor(s): Yasusi Kanada et al.
Appl. No.: 09/842,130

Sheet 5 of 21

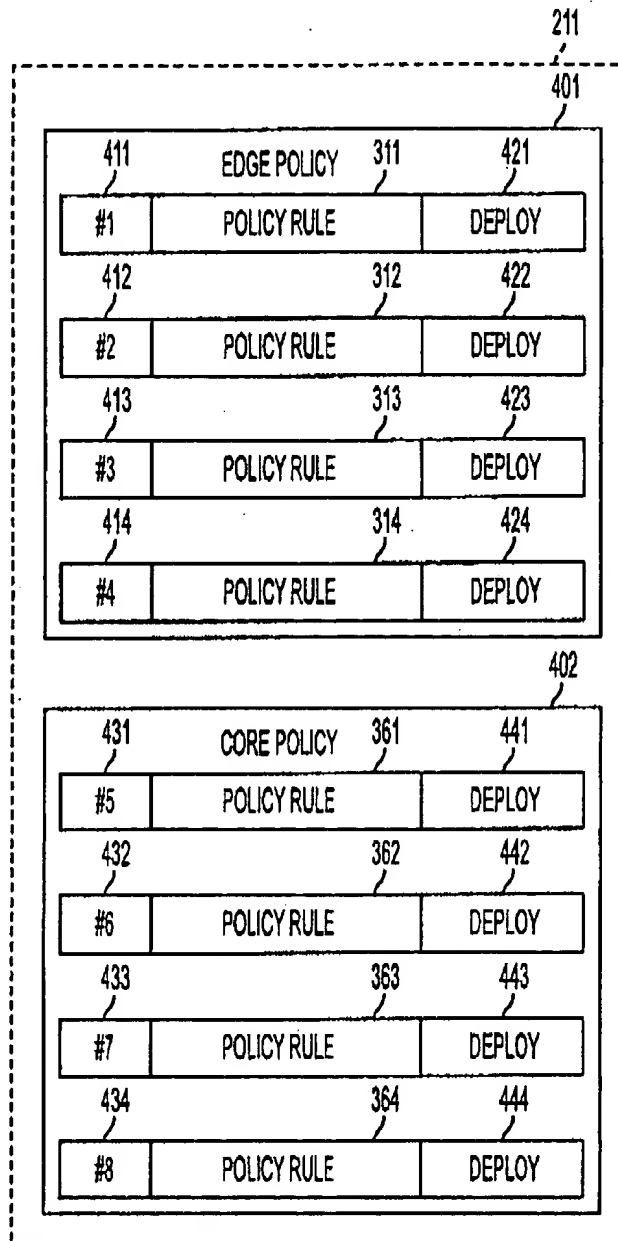


FIG. 4

REPLACEMENT SHEET
 Appl. Filing Date: April 26, 2001
 Title: METHOD AND SYSTEM FOR CONTROLLING
 A POLICY-BASED NETWORK
 Inventor(s): Yasusi Kanada et al.
 Appl. No.: 09/842,130 Sheet 6 of 21

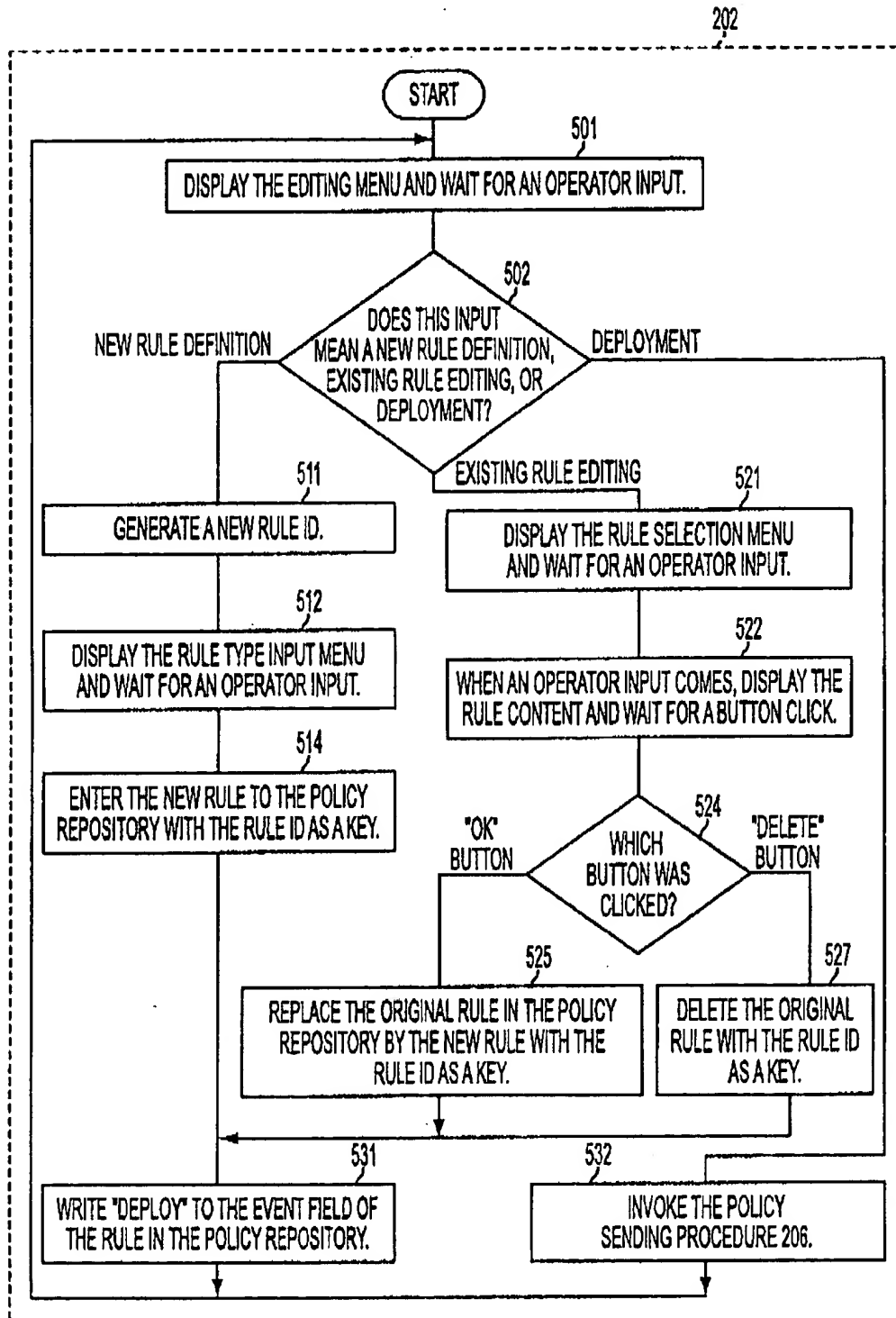


FIG. 5

Appln. Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK

Inventor(s): Yasusi Kanada et al.

Appln. No.: 09/842,130

Sheet 7 of 21

212 ↓

TARGET IP	ROUTER IP	INTERFACE	
192.168.4.*	192.168.1.2	3	← 602
192.168.5.*	192.168.2.2	3	← 603
192.168.6.*	192.168.3.2	4	← 604
192.168.7.*	192.168.3.2	4	← 605

↑ 611 ↑ 612 ↑ 613

FIG. 6

1111 ↓

RULE ID	POLICY TYPE	RULE	INTERFACE	CODEP	
#1	EDGE	→ 311	4	90	← 1011
#2	EDGE	→ 312	4	118	← 1012
#3	EDGE	→ 313	4	174	← 1013
#4	EDGE	→ 314	1,2,3,4	230	← 1014
#5	CORE	→ 361	1,2,3,4	332	← 1015
#6	CORE	→ 362	1,2,3,4	364	← 1016
#7	CORE	→ 363	1,2,3,4	300	← 1017
#8	CORE	→ 364	1,2,3,4	428	← 1018

↑ 1021 ↑ 1022 ↑ 1023 ↑ 1024 ↑ 1025

FIG. 10

1101 ↓

LABEL TYPE	LABEL VALUE	DEFINING RULE	REFERRING RULE	
DSCP	18	#1	#7	← 1111
DSCP	46	#2	#5	← 1112
DSCP	10	#3	#6	← 1113
DSCP	0	#3	#8	← 1114

↑ 1121 ↑ 1122 ↑ 1123 ↑ 1124

FIG. 11

Appln. Filing Date: April 26, 2001
 Title: METHOD AND SYSTEM FOR CONTROLLING
 A POLICY-BASED NETWORK
 Inventor(s): Yasusi Kanada et al.
 Appln. No.: 09/842,130

Sheet 8 of 21

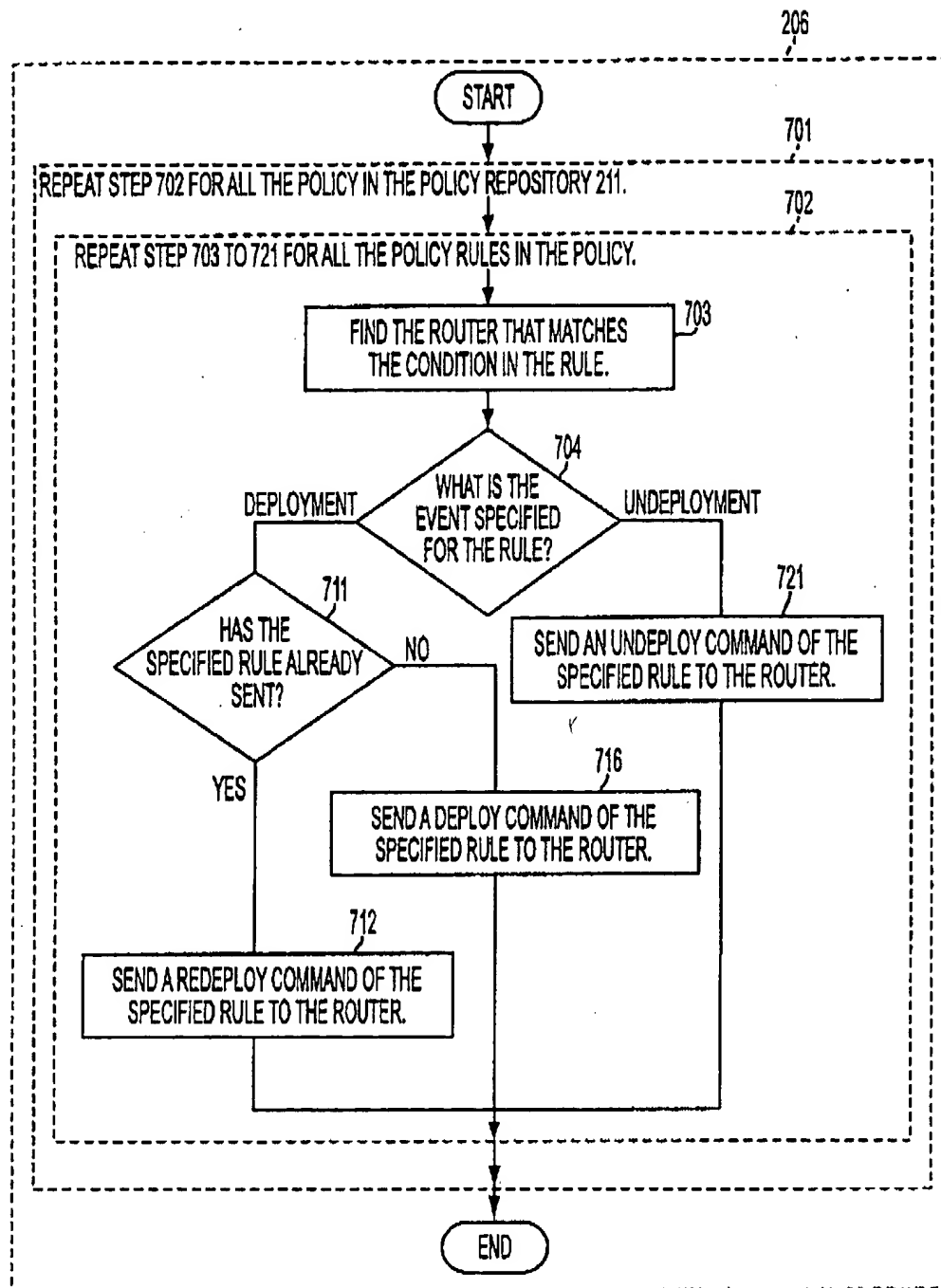


FIG. 7

Appln. Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK

Inventor(s): Yasusi Kanada et al.

Appln. No.: 09/842,130

Sheet 9 of 21

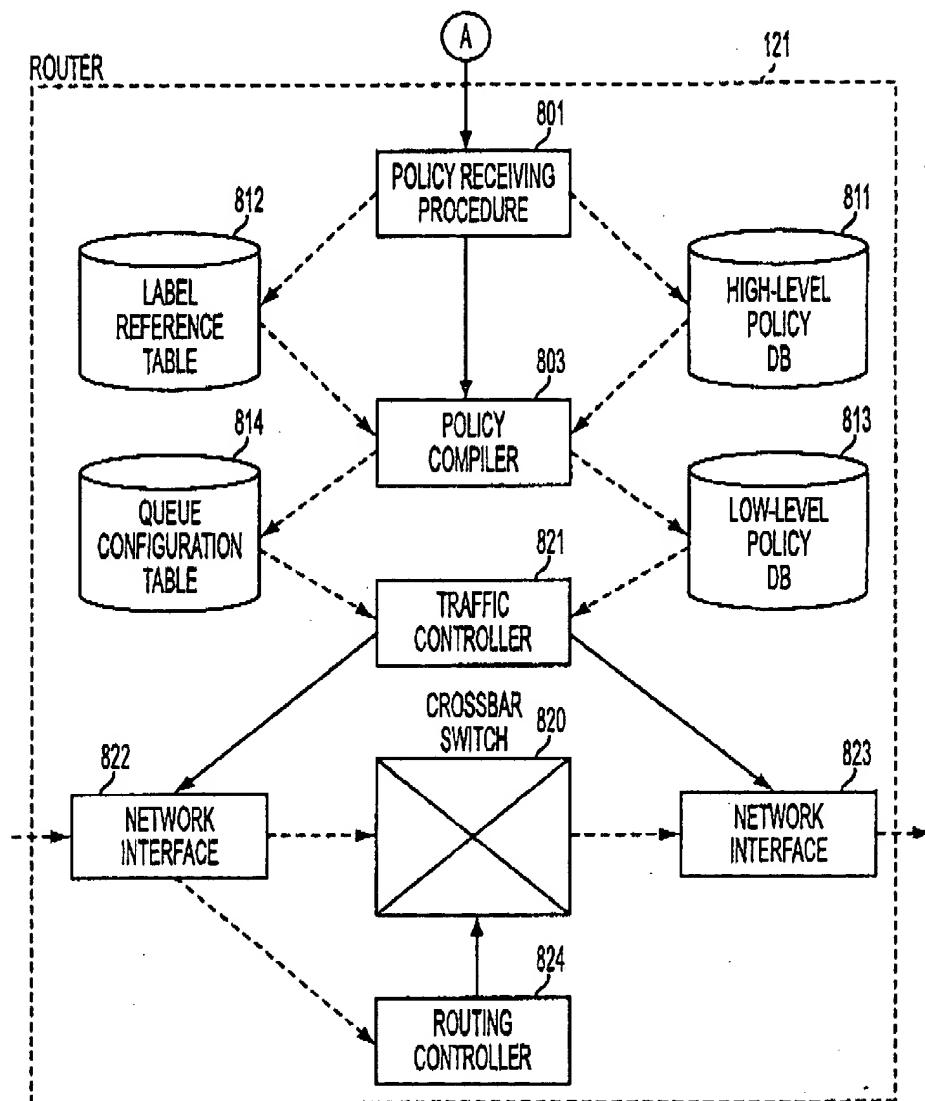


FIG. 8

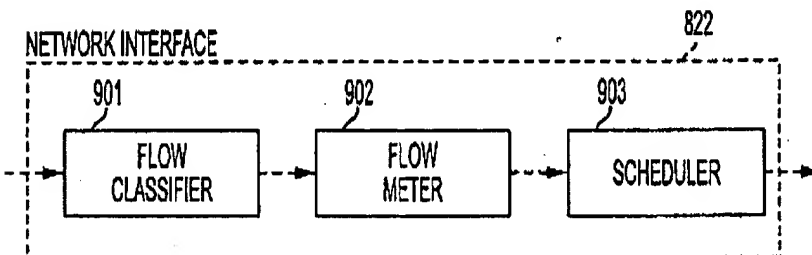


FIG. 9

Appln. Filing Date: April 26, 2001
Title: METHOD AND SYSTEM FOR CONTROLLING
A POLICY-BASED NETWORK
Inventor(s): Yasusi Kanada et al.
Appln. No.: 09/842,130 Sheet 10 of 21

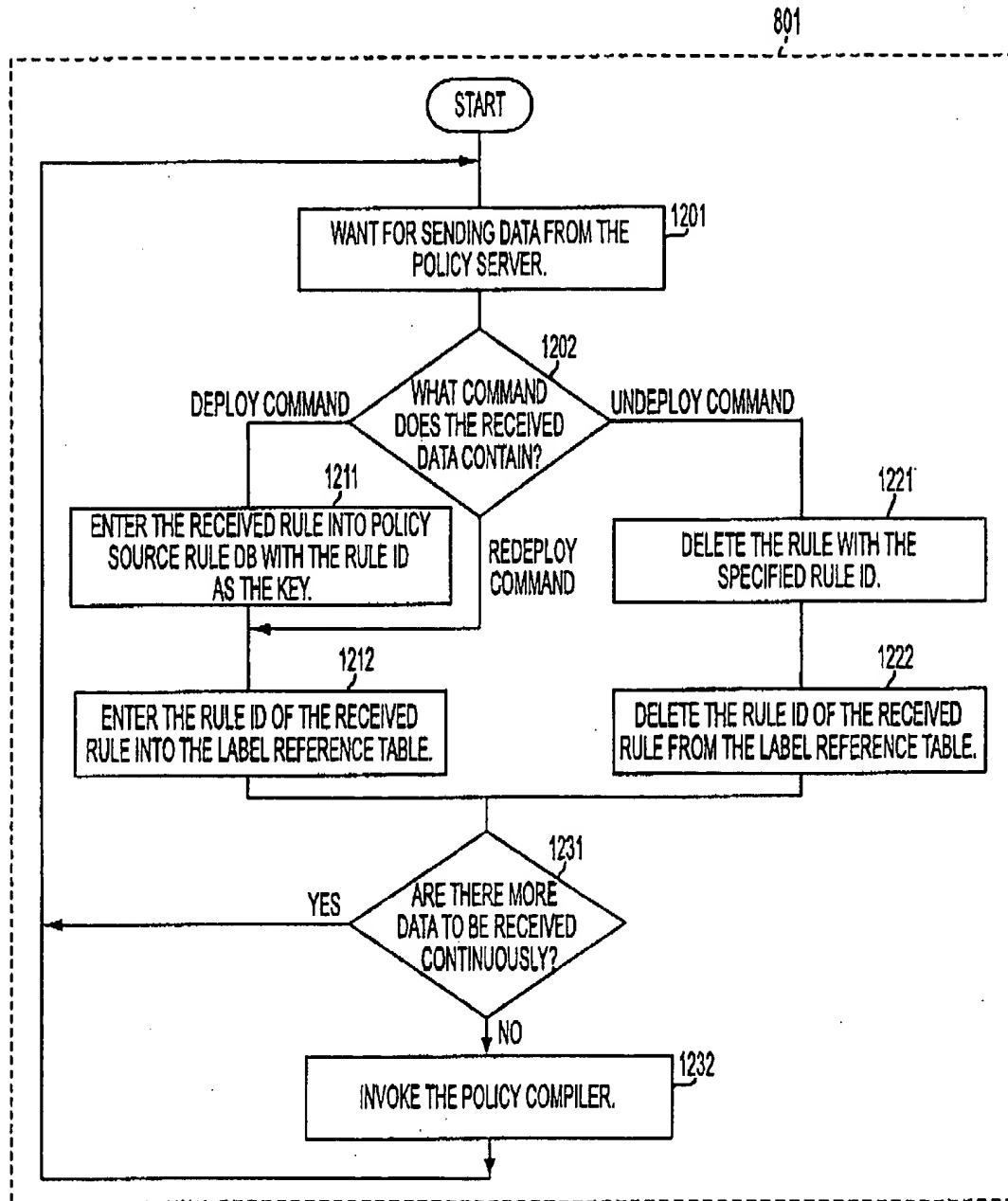


FIG. 12

Appl. Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK

Inventor(s): Yasusi Kanada et al.

Appl. No.: 09/842,130

Sheet 11 of 21

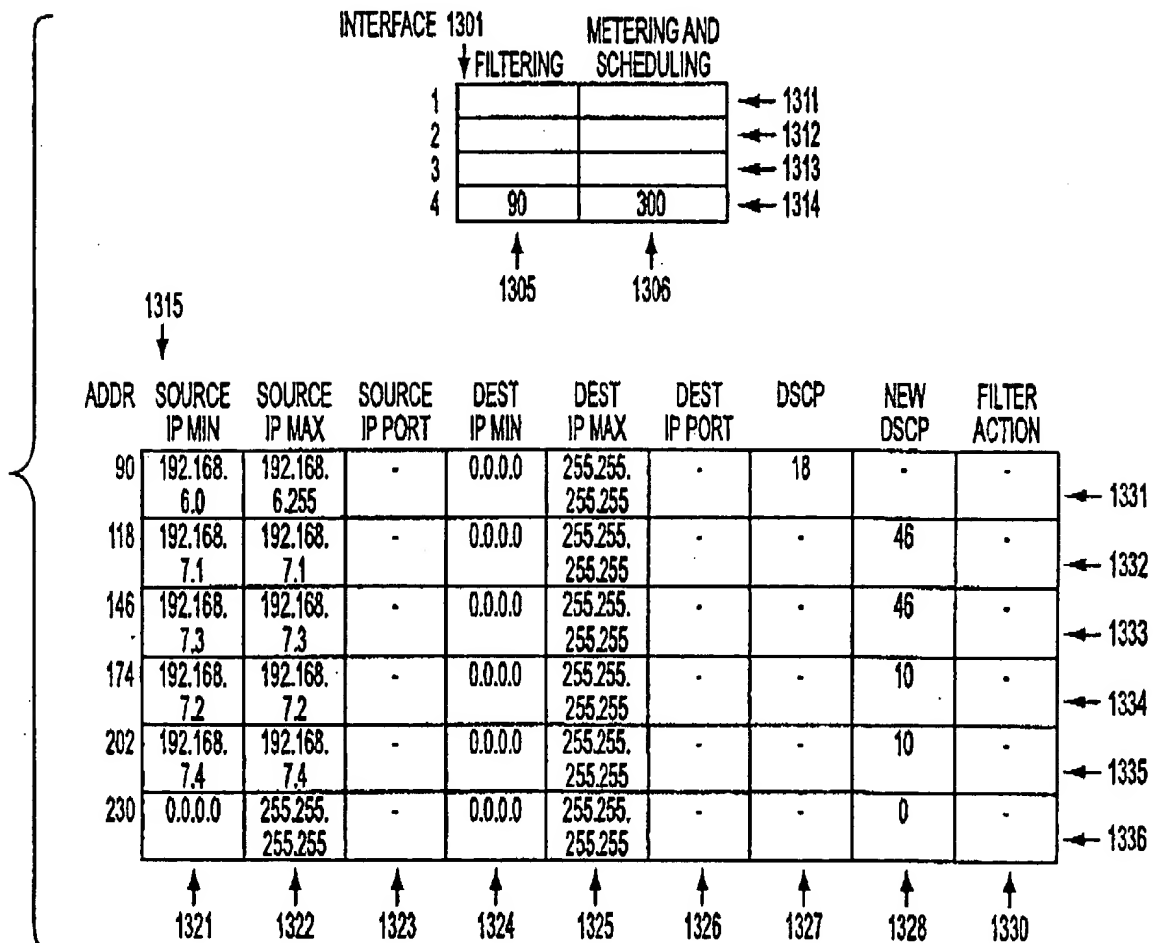


FIG. 13

Appln. Filing Date: April 26, 2001
Title: METHOD AND SYSTEM FOR CONTROLLING
 A POLICY-BASED NETWORK
Inventor(s): Yasusi Kanada et al.
Appln. No.: 09/842,130

Sheet 12 of 21

1316
↓

ADDR	SOURCE IP MIN	SOURCE IP MAX	SOURCE IP PORT	DEST IP MIN	DEST IP MAX	DEST IP PORT	DSCP	INFO. RATE	IN QUEUE	OUT DSCP	OUT QUEUE	OUT DROP
300	192.168. 6.0	192.168. 6.255	-	0.0.0.0	255.255. 255.255	-	18	-	5	-	-	-
332	0.0.0.0	255.255. 255.255	-	0.0.0.0	255.255. 255.255	-	46	1000	6	-	-	DROP
364	192.168. 7.2	192.168. 7.2	-	0.0.0.0	255.255. 255.255	-	10	-	5	-	-	-
396	192.168. 7.4	192.168. 7.4	-	0.0.0.0	255.255. 255.255	-	10	-	5	-	-	-
428	0.0.0.0	255.255. 255.255	-	0.0.0.0	255.255. 255.255	-	-	-	2	-	-	-

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑
 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352

FIG. 14

814
INTERFACE

	1501 ↓ ADDRESS	1502 ↓ SCHEDL ALG	
1	-	-	← 1511
2	-	-	← 1512
3	-	-	← 1513
4	-	PRIORITYSCHEDL	← 1514

FIG. 15

Appln. Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK

Inventor(s): Yasusi Kanada et al.

Appln. No.: 09/842,130

Sheet 13 of 21

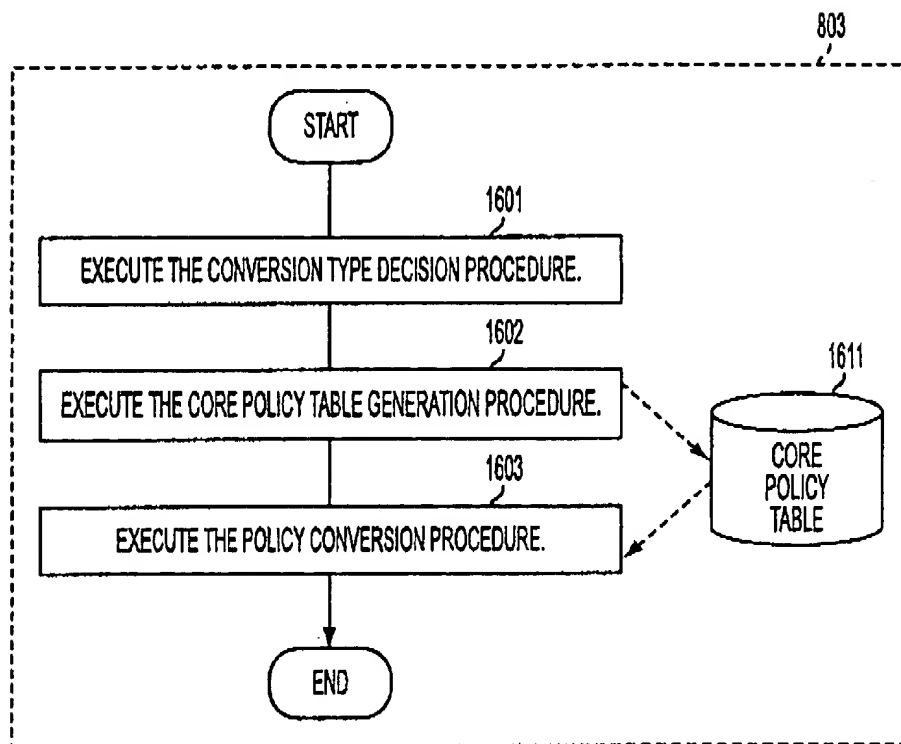


FIG. 16

Appln. Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING

A POLICY-BASED NETWORK

Inventor(s): Yasusi Kanada et al.

Appln. No.: 09/842,130

Sheet 14 of 21

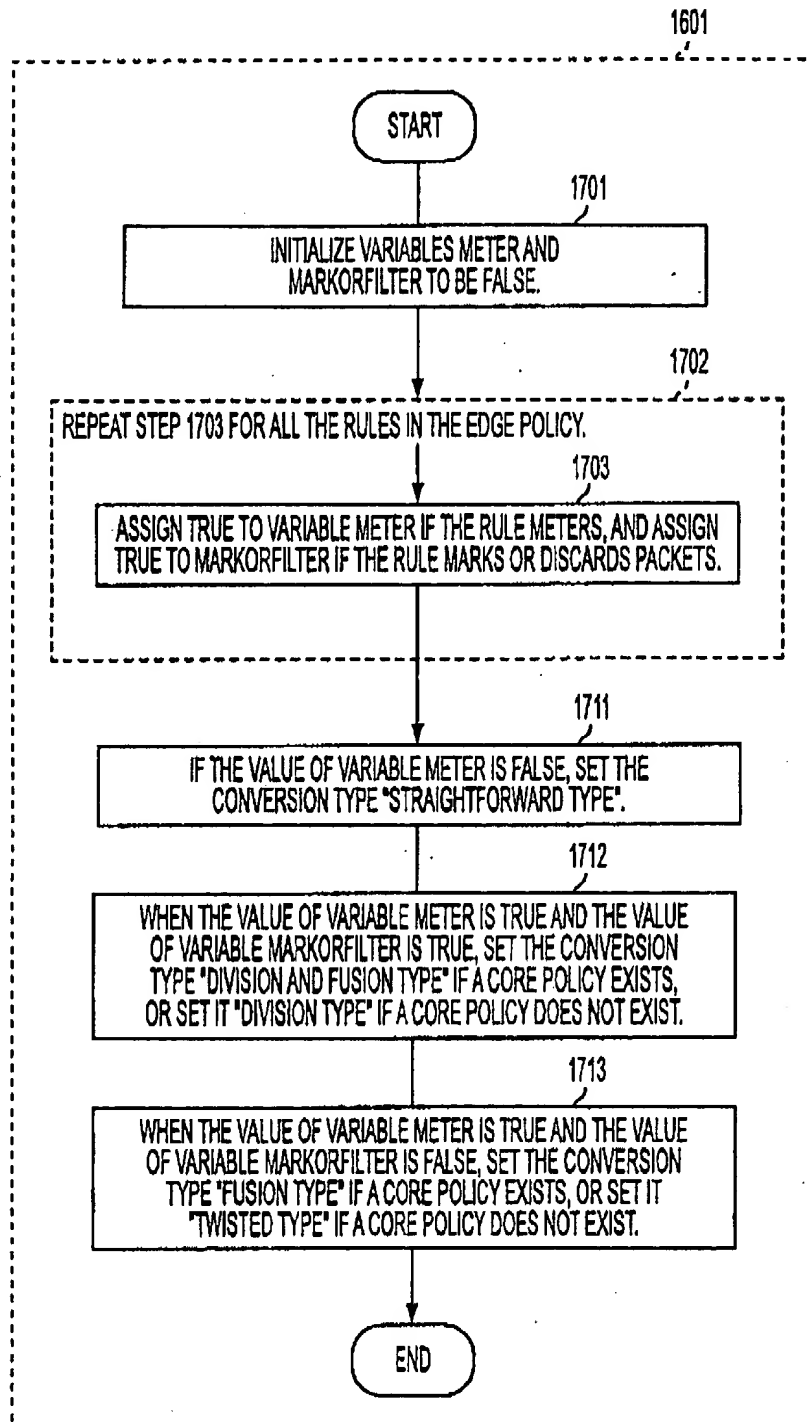


FIG. 17

REPLACEMENT SHEET

Appln. Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK

Inventor(s): Yasusi Kanada et al.

Appln. No.: 09/842,130

Sheet 15 of 21

1611

DSCP	10	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 5;	1801
DSCP	18	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 5;	1802
DSCP	46	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 6;	1803
DSCP	-	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 2;	1804

FIG. 18

REPLACEMENT SHEET
Appl. Filing Date: April 26, 2001
Title: METHOD AND SYSTEM FOR CONTROLLING
A POLICY-BASED NETWORK
Inventor(s): Yasusi Kanada et al.
Appl. No.: 09/842,130 Sheet 16 of 21

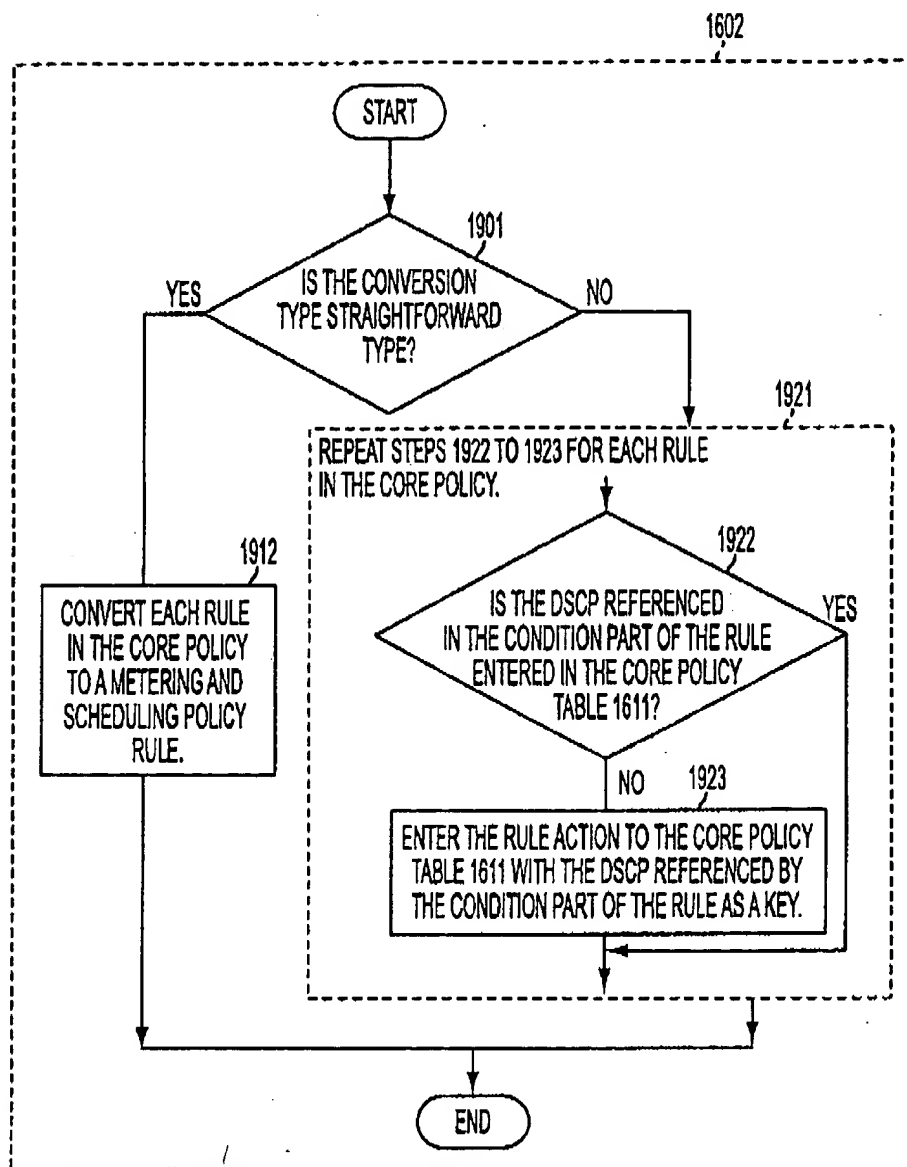


FIG. 19

Appl. Filing Date: April 26, 2001
 Title: METHOD AND SYSTEM FOR CONTROLLING A
 POLICY-BASED NETWORK
 Inventor(s): Yasusi Kanada et al.
 Appl. No.: 09/842,130

Sheet 17 of 21

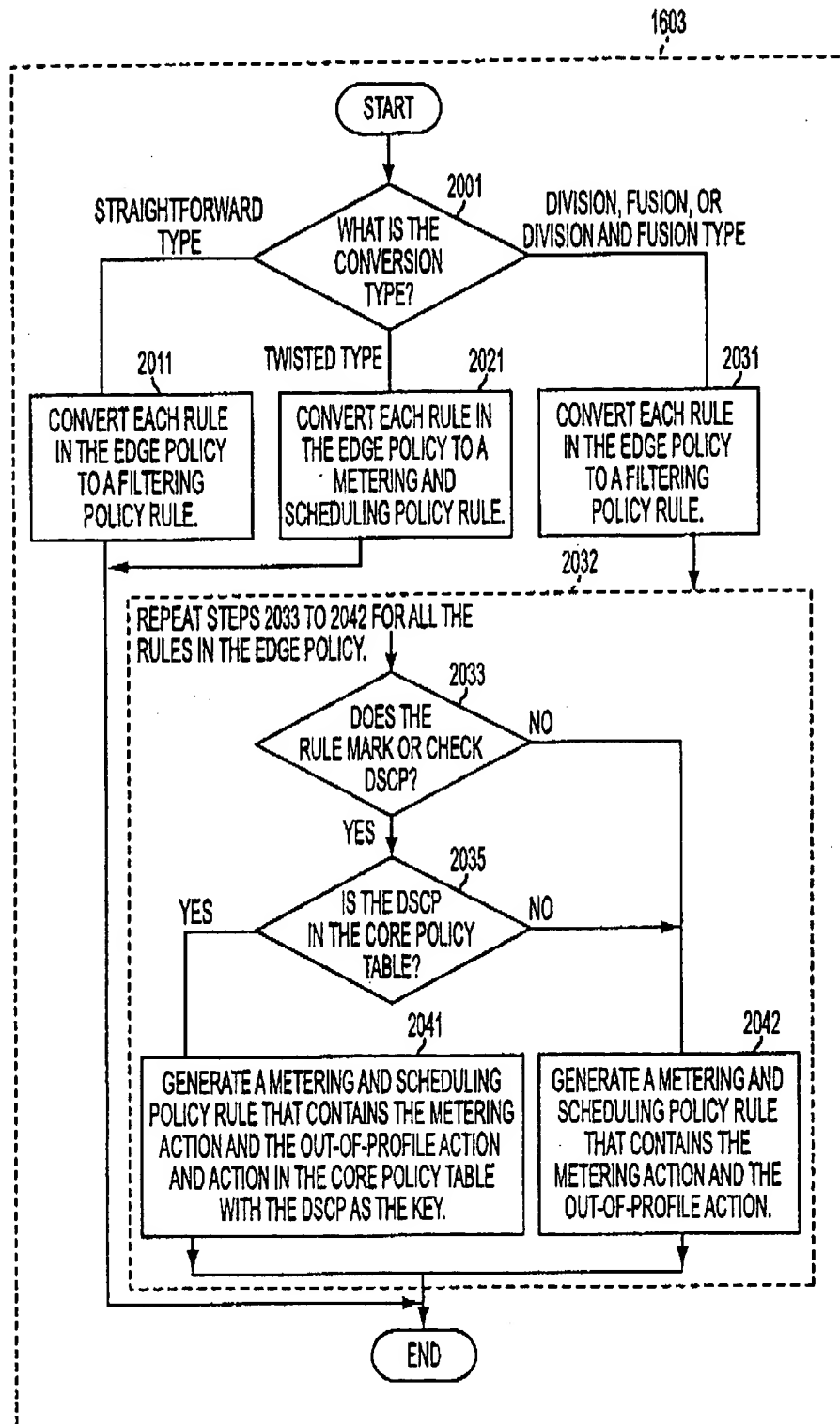


FIG. 20

Appln. Filing Date: April 26, 2001
Title: METHOD AND SYSTEM FOR CONTROLLING
A POLICY-BASED NETWORK
Inventor(s): Yasusi Kanada et al.
Appln. No.: 09/842,130 Sheet 18 of 21

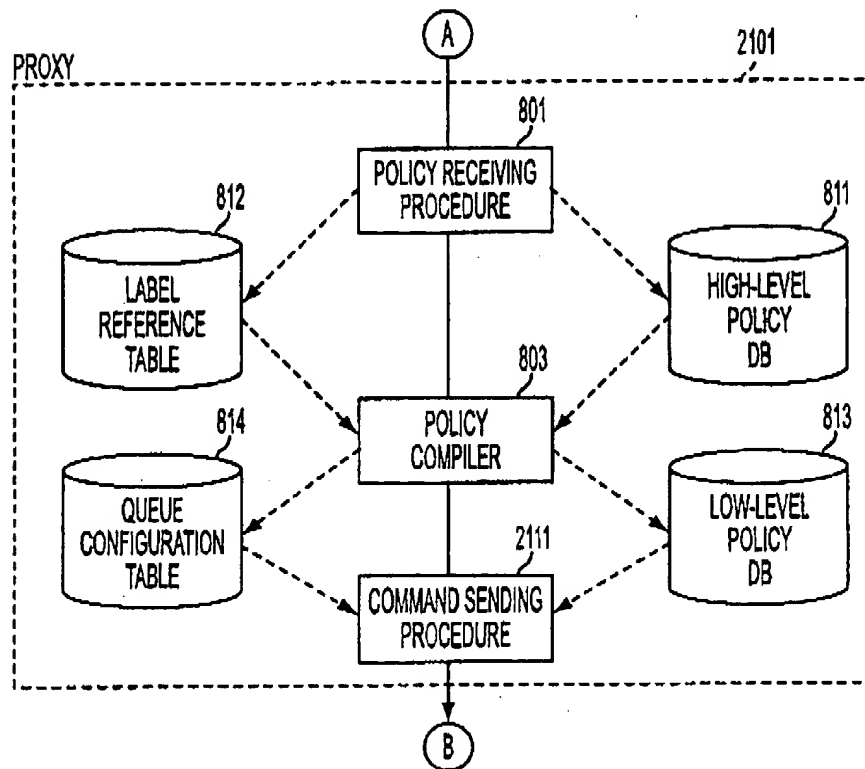


FIG. 21A

Appln. Filing Date: April 26, 2001
Title: METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK
Inventor(s): Yasusi Kanada et al.
Appln. No.: 09/842,130

Sheet 19 of 21

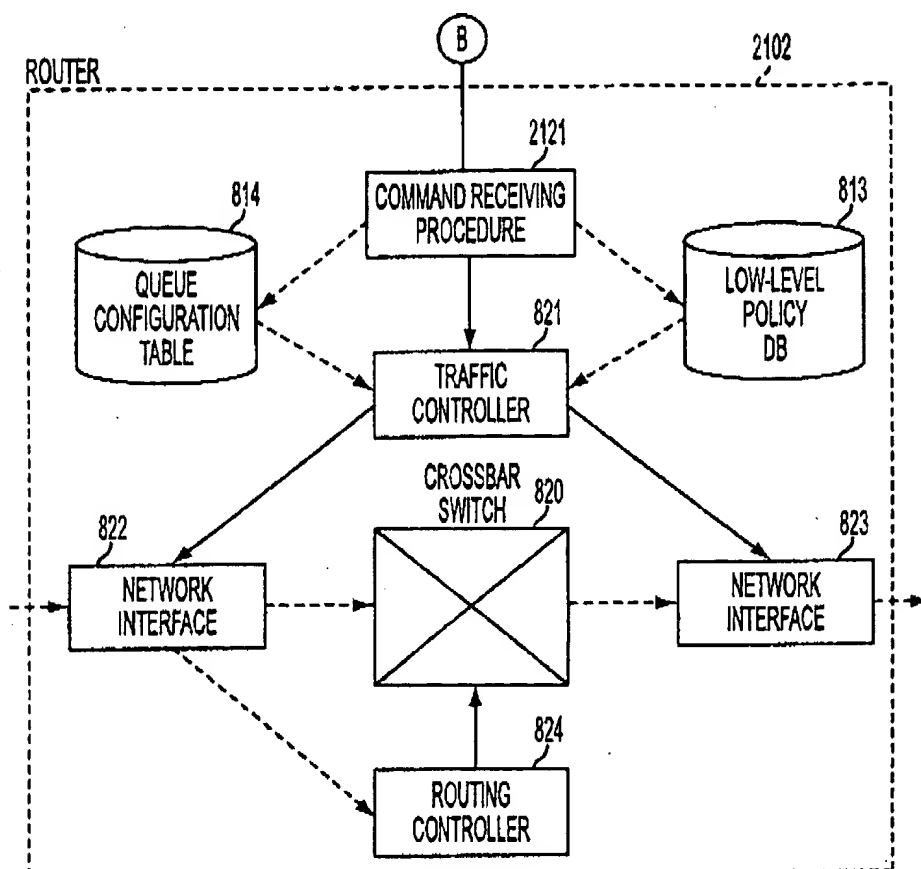


FIG. 21B

Appln. Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING

A POLICY-BASED NETWORK

Inventor(s): Yasusi Kanada et al.

Appln. No.: 09/842,130

Sheet 20 of 21

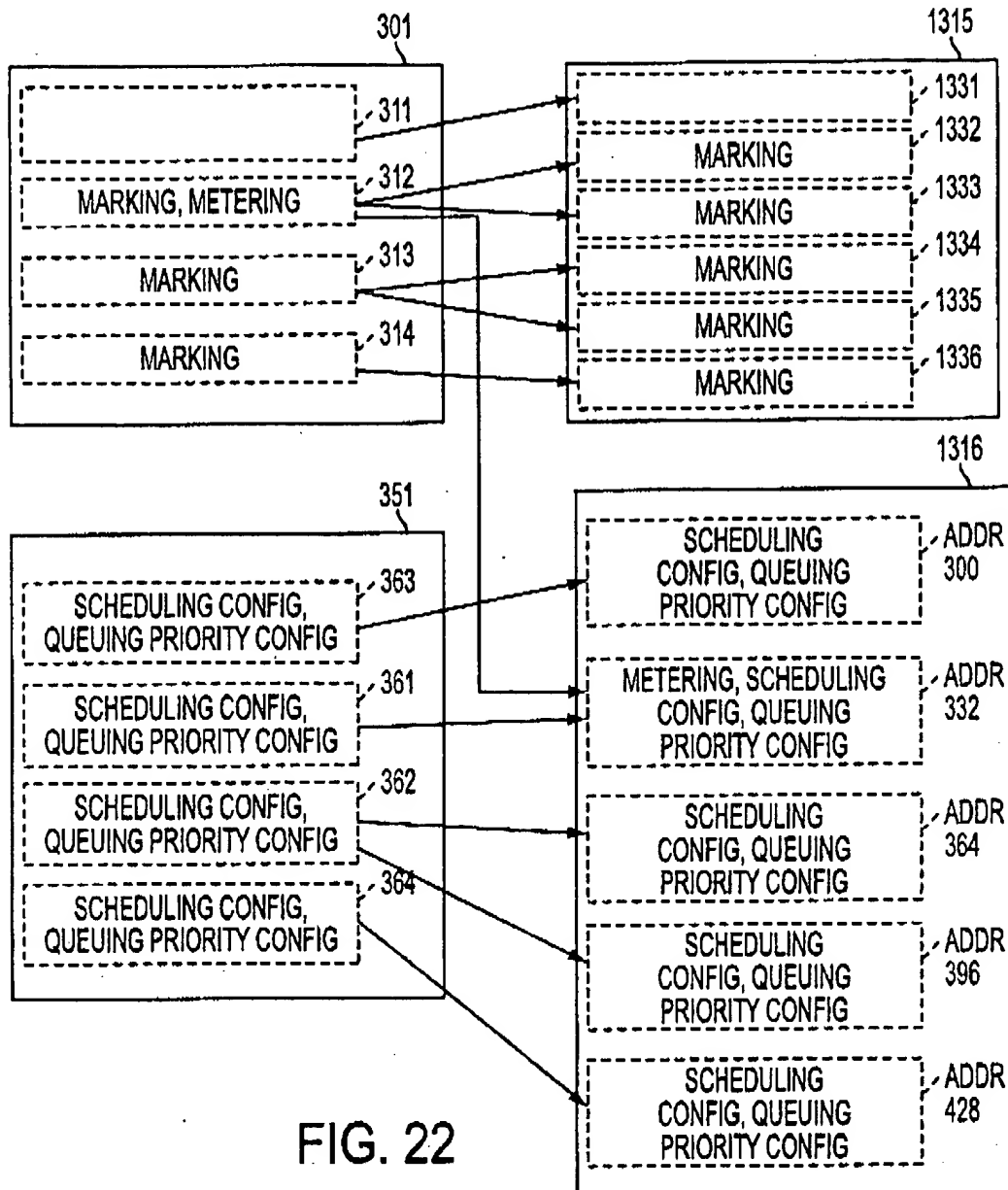


FIG. 22

Appln. Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK

Inventor(s): Yasusi Kanada et al.

Appln. No.: 09/842,130

Sheet 21 of 21

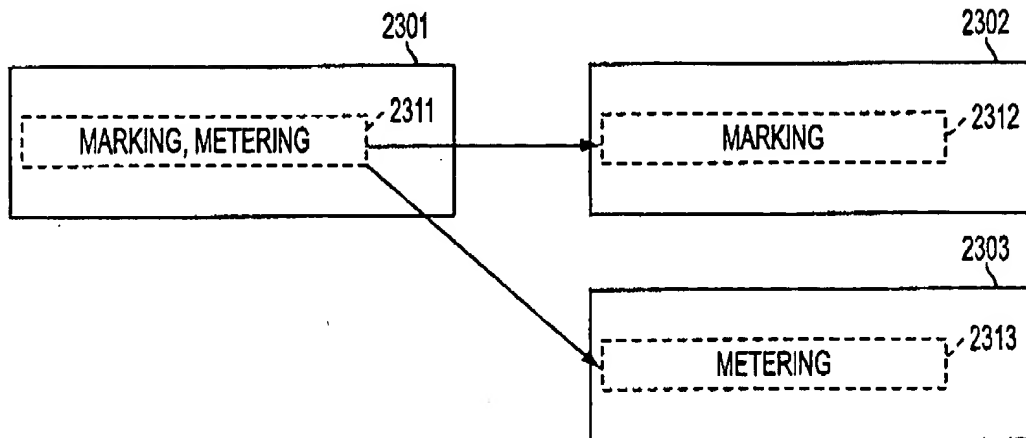


FIG. 23A

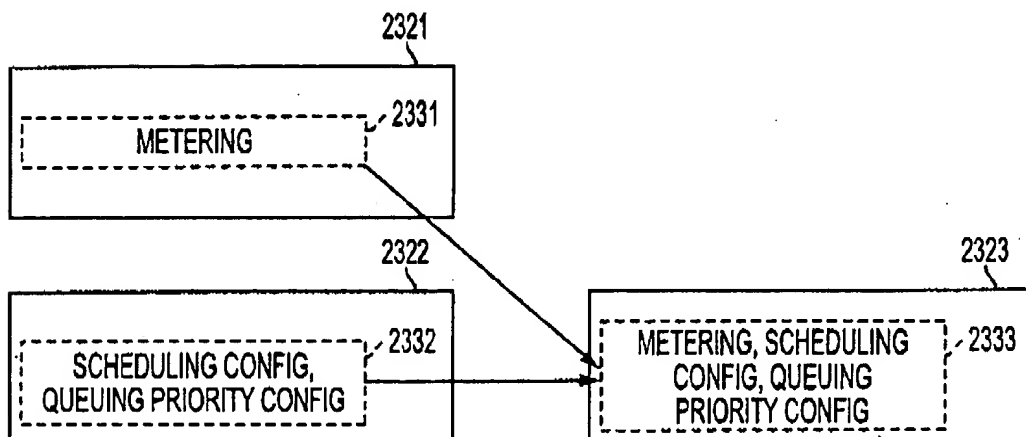


FIG. 23B